

**MODEL:** PJ-103H-MSMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

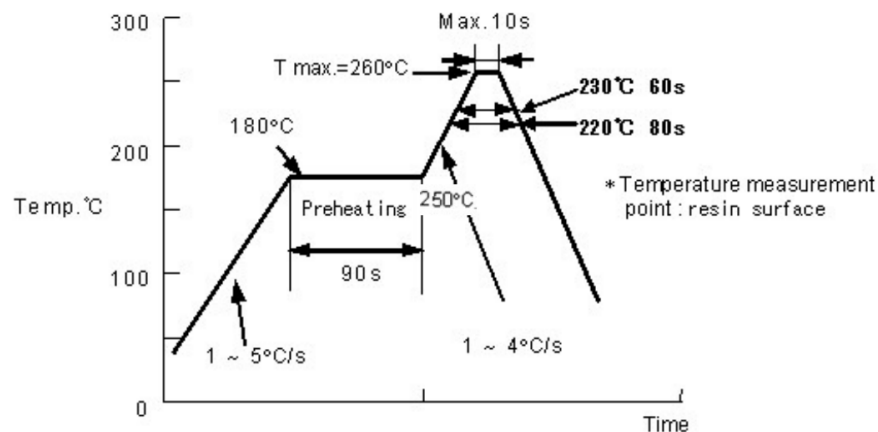
- 3 conductor with signal pin
- reflow solder
- tape & reel packaging

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			42		Vdc
rated input current	power pin			10	A
	signal pin			3	A
contact resistance				50	mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-20		70	°C
storage temperature		-40		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	5~35°C, <75% humidity				°C
reflow soldering	see reflow profile			260	°C
drying conditions	bake at 120°C for 4 hours				



MECHANICAL DRAWING

units: mm

tolerance:

X. ± 0.50 mm

X.X ±0.25 mm

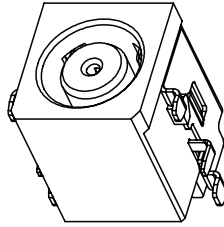
X.XX ±0.15 mm

X.XXX ±0.10 mm

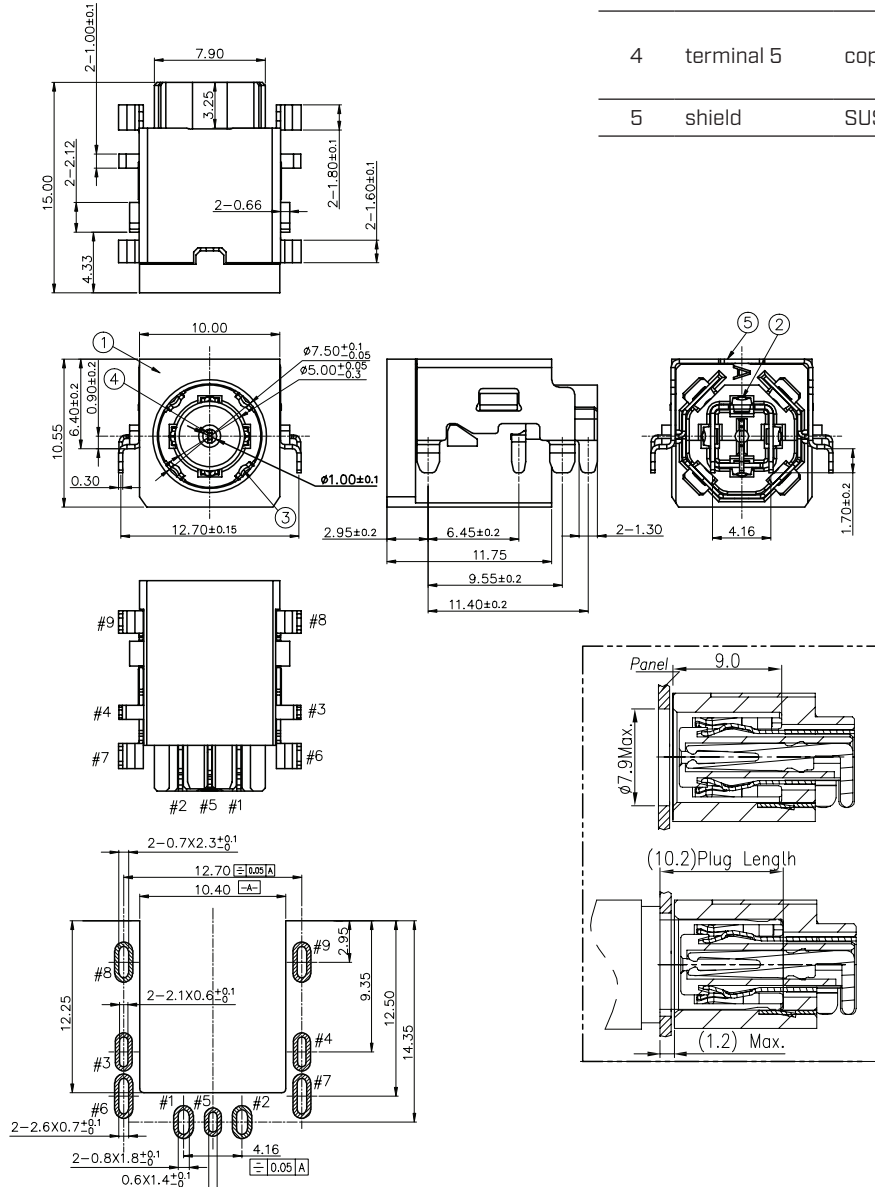
PCB: ± 0.05 mm

unless otherwise specified

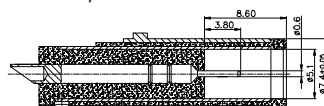
PCB thickness: 1.4 mm



ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	housing	PA10T (UL94V-0)	black
2	terminal 1 & 2	copper alloy t=0.30	contact area: 3 μ" gold solder area: tin over nickel
3	terminal 3 & 4	copper alloy t=0.25	contact area: 3 μ" gold solder area: tin over nickel
4	terminal 5	copper alloy t=0.30	contact area: 3 μ" gold solder area: tin over nickel
5	shield	SUS 304 t=0.30	nickel



Recommended PCB Layout
Top View



MATING PLUG
Jack Insertion Depth: 9.0 mm

Schematic	
Model	PJ-103H-MSMT-TR
terminals 1 & 2	V+
terminals 3 & 4	V-
terminal 5	signal pin

REVISION HISTORY

rev.	description	date
1.0	initial release	09/23/2024

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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